

NameSr.#

**Q1.** Let  $f(x) = \frac{x^3 - 4x}{x^3 + 2x^2}$

- a) Find the discontinuities points and which is removable.
- b) Find the equations of vertical and horizontal asymptotes.

**Q2.** Find the horizontal asymptotes of  $y = \arctan(e^x)$